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Date:	Wed, 4/8/2015 6:02:52 PM
Subject:	RE: Machine Learning Tutorial

Just to add that SVM was considered the state-of-the-art in machine learning before the emergence of deep learning in recent years. It is very fast, but being from the family of linear classifiers, it is not capable of finding deep patterns and correlations. In recent years the results obtained by deep learning (deep neural networks) are by orders of magnitude better than SVM (which in itself was better than previous methods).

We use SVM whenever we need fast classifiers for problems which are not very difficult (do not require deep human-like understanding), and deep learning for the more challenging problems (such as vision, audio, text understanding and translation, etc.).

Attached please find the slides from Yann LeCun's 2013 tutorial on deep learning, which also compares it to previous machine learning methods, including SVM.

Best,

Eli.

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From: 100
Sent: Wednesday, April 08, 2015 4:00 PM
To: ehbarak
Cc: 111; 400
Subject: Machine Learning Tutorial

Dear Mr. Barak

See attached a short doc re SVM, which we already implemented in one of our components.

GC

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[lecun-deeplearning-tutorial.pdf](#)